



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

## GENERAL INDEX

The most important classified entries will be found under Contributors, Personals, and Reviews. New names and names of new genera, species, and varieties are printed in **bold-face** type; synonyms in *italic*.

### A

Abrams, LeRoy, work of 210  
 Acanthotreulia 418  
 Achlya **hypogyna** 194  
 Acrobotrys 347  
 Adventitious buds, Gnetum 357  
 Africa, algae 208; desert vegetation 213  
 Agave 210  
 Alectorurus 419  
 Alfvar 279  
 Algae, action of Mg and K 117; African 208; nitrogen fixation by 214; parasitic on tea 212  
 Allen, C. E., personal 287  
 Allen, Ruth F., personal 288  
 Alpine vegetation, Colorado 319  
 Alternation of generations 309  
 American Breeders' Association 344  
 Ames, Oakes, personal 72; work of 282  
 Amphicarpon, cleistogamy of 136  
 Amsinckia 281  
 Ananthacorus 419  
 Anatomy, Araliaceae 69  
 Anatomy, Equisetum 214  
 Anatomy, Lobeliaceae 140  
 Anatomy, Palaeostachya 141  
 Anatropanthus 347  
 Ancistrohynchus 419  
 Andrews, F. M. 340  
 Androsace 282  
 Angiosperms, origin 196; relation of megaspores to embryo sacs 361  
 Anthocerotales, Javanese 349  
 Antrophytum 65  
 Apogamy, ferns 276; Nephrodium 289; Rumex 215  
 Apospory, in ferns 276  
 Aquatics, nutrition of 359  
 Arabis 66  
 Aragallus 66  
 Araliaceae, anatomy of 69  
 Arber, E. A. Newell, work of 359  
 Arisaema triphyllum, embryo 38  
 Aroids, roots of 142  
 Arthur, J. C., work of 347  
 Ascent of water 345  
 Ascocarp of Lachnea 206  
 Ascomycetes 347  
 Asimina, morphology of 421

Aspergillus, morphology of 356  
 Asplenium 418  
 Assimilation, of carbon by Penicillium 176  
 Atractocarpus 347

### B

Badiera 65  
 Bain, S. M., personal 344  
 Baker, E. G., work of 347  
 Balance, convenient traveling 269  
 Barber, C. A., work of 213  
 Barnes, Charles Reid 61, 71, 137, 142, 143, 200, 201, 209, 213, 273, 275, 278, 280, 281, 283, 284, 286, 341, 342, 345, 349, 351, 354, 355, 356, 357, 359, 420, 421, 422  
 Barnhart, J. H., work of 347  
 Bateson, William, personal 72  
 Baur, E., personal 288; work of 350  
 Becquerel, Paul, work of 275  
 Behney, Mary E. 54  
 Belajeff, W., work of 147  
 Benecke, W., work of 422  
 Benedict, R. C., work of 65  
 Benson, Margaret 409  
 Bessey's "Plant phyla" 344  
 Bessey, Ernst A., work of 421  
 Biometrics, Ceratophyllum 63  
 Blackman, F. F., personal 287  
 Blackman, Vernon H., personal 144  
 Blair, J. C., work of 419  
 Blankinship, J. W., work of 358  
 Blepharoplast, origin of 160  
 Bohlin, K., personal 72  
 Boisduvalia 282  
 Bolus, H., work of 65  
 Bonata 347  
 Bonnier, Gaston, personal 360  
 Botanical Gazette, changes in 424  
 Boulenger, H. A., work of 63  
 Brandenburg, cryptogamic flora of 343  
 Breeding, plant 274  
 Brefeld, Oskar, personal 424  
 Briquet, J., work of 282  
 British plants, list of 343  
 Britton, N. L., personal 72; work of 65, 282, 347  
 Brotherus, V. F., work of 202  
 Bryophytes, morphology of 59  
 Buch, H., work of 60

- Buds, winter condition 54  
 Burlingame, L. L. 68; personal 423;  
   work of 3  
 Burrill, T. J., work of 414  
 Butler, E. J., work of 209
- C
- Caldwell, Otis W. 58  
 California peach blight 208  
 Calkins, G. N., work of 2  
 Callitriche 419  
 Campbell, D. H., work of 68, 148, 349  
 Capitaine, L. L., work of 418  
 Capnoides 66  
 Caprifigs, endosperm of 353  
 Carbon assimilation of *Penicillium* 176  
 Cardiff, I. D., work of 3  
*Carex* 347  
 Cassia, embryo sac of 215  
 Cassiope 65  
 Castilleja 65  
 Castle, W. E., personal 344; work of 274  
 Ceratophyllum, biometric study 63  
 Ceratopycnidium 210  
 Ceratozamia, embryo 412  
 Cereal rusts 212  
 Chaetomorpha 65  
 Chamberlain, Charles J. 58, 59, 215,  
   347, 357, 358; personal 287, 424  
 Chambers, H. S., work of 356  
 Charia 65  
 Chase, Agnes 135  
 Chlorocrambe 65  
 Chlorophyll, economy of 359; function-  
   less 215; spectrum of 356  
 Chloropyron 210  
 Choananthus 347  
 Chromosomes, individuality of 347; in  
   Nephrodium 10; reduction and synap-  
   sis 18; *Sarracenia* 36  
 Chylisma 282  
 Chrysler, M. A. 214, 352  
 Cladophora 65  
 Clapp, Grace Lucretia 254  
 Clark, C. B., work of 346  
 Cleistogamy of grasses 135  
 Clute, W. N., work of 418  
 Coastal plain vegetation 204  
 Cockayne, L., work of 139  
 Cockerell, T. D. A. 338  
 Codonanthe 347  
 Coffein 213  
 Cogswellia 419  
 Coker, W. C. 141, 194; work of 338  
 Collins, F. S., personal 287; work of 65  
 Colorado, Alpine vegetation 319  
 Compositae of Southern California 285  
 Conjugation, in *Spirogyra* 357  
 Contributors: Andrews, F. M. 340;  
   Behney, Mary E. 54; Benson, Marga-  
   ret 409; Burlingame, L. L. 68; Barnes,  
   C. R. 61, 71, 137, 142, 143, 200, 201,  
   209, 213, 273, 275, 278, 280, 281, 283,  
   284, 286, 341, 342, 345, 349, 351, 354,  
   355, 356, 357, 359, 420, 421, 422;  
   Caldwell, O. W. 58; Chamberlain, C. J.  
   58, 59, 215, 347, 357, 358; Chase, Agnes  
   135; Chrysler, M. A. 214, 352; Clapp,  
   Grace L. 254; Cockerell, T. D. A. 338;  
   Coker, W. C. 141, 194; Coulter, J. M.  
   59, 66, 70, 202, 208, 210, 211, 212, 213,  
   214, 281, 283, 285, 341, 343, 344, 346,  
   353, 355, 356, 357, 358, 359, 361, 418,  
   421, 422; Cowles, H. C. 55, 71, 138,  
   139, 143, 204, 205, 211, 213, 214, 215,  
   279; Eckerson, Sophia 54; Fuller,  
   G. D. 352; Gates, R. R. 60, 68; Gow,  
   J. E. 38; Greenman, J. M. 198;  
   Hallier, H. 196; Hasselbring, H. 176,  
   199, 203, 207, 209, 211; Holm, T.  
   69, 140; Jeffrey, E. C. 67, 141; Land,  
   W. J. G. 349, 359; Longo, B. 70;  
   Magowan, Florence N. 45; Moore,  
   W. 54; Nichols, M. Louise 31; Oster-  
   hout, W. J. V. 117; Overton, J. B.  
   206; Pemberton, J. D. 194; Pond,  
   R. H. 232, 359; Reed, H. S. 73;  
   Rusby, H. H. 59; Schreiner, O. 73;  
   Setchell, W. A. 125; Shull, G. H. 63,  
   103, 140, 274, 344, 350; Smith, W. R.  
   338; Stevens, F. L. 66, 208; Stock-  
   berger, W. W. 269; Stokey, Alma G.  
   420; Transeau, E. N. 217; Yama-  
   nouchi, S. 1, 145, 276, 285, 289, 354;  
   Wilcox, E. M. 420  
 Cooper, William S. 19  
 Copeland, E. B., personal 144; work of 347  
 Coprosma Baueri, leaf variation 139  
 Cordeauxia 65  
 Coriulus 202  
 Corn, breeding in tropics 140  
 Coulter, John M. 59, 66, 70, 202, 208,  
   210, 211, 212, 213, 214, 215, 281, 283,  
   285, 341, 343, 344, 346, 353, 355, 356,  
   357, 358, 359, 361, 418, 421, 422; per-  
   sonal 424  
 Coupin, Henry, personal 360  
 Cowles, H. C. 55, 71, 138, 139, 143, 204,  
   205, 211, 213, 214, 215, 279; personal 216  
 Crataegus 282  
 Cusickia 419  
 Curtis, Carlton C., personal 423  
 Cyanogenesis 209  
 Cyperaceae 346  
 Cyperus 282
- D
- Dachnowski, A., work of 59  
 Dalla Torre and Harms's "Genera Siphonogamarum" 59

- Darwin, Francis, personal 287  
 Davenport, George E., personal 287  
 Davenport, C. B., personal 344  
 Davidson, A., work of 65  
 Davis, B. M., work of 354  
 DeBary, A., work of 289  
 DeCandolle, Casimir, work of 65  
 Delacroix, E. G., death of 216  
 Denniston, R. H., personal 288  
 Derbesia, spore-formation in, 354  
 Desert vegetation, Africa 213  
 Detto, C., personal 72  
 Diastase, production of 142  
 Dicoria 347  
 Dicranotaenia 419  
 Dictionary of botany 360  
 Diel's "Jugendformen und Blütenreife"  
     137  
 Digby, L., work of 3, 291  
 Diholcos 65  
 Diplazium 418  
 Diplocyathium 356  
 Diseases, peach blight 208; sugar cane  
     209  
 Dolichanthera 347  
 Druce's "List of British plants" 343  
 Drummond, J. R., work of 210  
 Duggar, B. M., personal 216

## E

- East, E. M., work of 274  
 Echinocereus 418  
 Eckerson, Sophia 54  
 Eggleston, W. W., work of 282  
 Eisenberg, Elfride, work of 142  
 Elasmomyces 210  
 Electricity, effect of 286  
 Elements, rôle of 283  
 Elmer, A. D. E., personal 144; work of  
     347  
 Embryo, *Arisaema triphyllum* 38; *Cera-*  
*tozamia* 412; nourishment of 143;  
*Oxalis* 422; *Sechium* 70; -sac, *Im-*  
*patiens* 211; relation to megaspores 361  
 Endosperm, *Arisaema* 42; caprifigs 353  
     *Pontederiaceae* 338  
 Engler, A., "Pflanzenfamilien" 202;  
     "Pflanzenreich" 58; work of 202, 418  
 Englerocharis 347  
 Equisetum, anatomy of 214  
 Errera, Léo, memorial of, personal 423;  
     "Physiologie moléculaire" 200  
 Escoyez, E., work of 285  
 Eucalyptus 202  
 Euphorbia, inflorescence of 356  
 Evans, A. W., work of 282  
 Evans, B. P., work of 212  
 Evaporation, relation of plant societies  
     to 217  
 Evolvulus 418

- Ewart, A. J., work of 345  
 Exudation 50

## F

- Farlow, W. G., work of 289  
 Farmer, J. B., work of 3, 291; personal  
     216  
 Fernald, M. L., work of 138, 282, 419  
 Ferns, apogamy and apospory 276; ger-  
     mination of spores 421  
 Fertilization, *Arisaema* 41; *Nephrodium*  
     145; *Polytrichum* 358  
 Ficus 347  
 Figs, strangling 421  
 Finet, A., work of 419  
 Fischer, Ed., work of 65  
 Fitting, Hans, personal 72; work of 348  
 Fixation of free nitrogen 355  
 Fomitiporella 202  
 Forest, Philippine 205  
 Fossil Osmundaceae 67  
 Foxworthy, F. W., personal 144  
 Fragaria 419  
 Fraser, H. C. I., work of 206, 356  
 Fraysse, work of 211  
 Friedel, J., work of 215  
 Frye, T. C., personal 360; work of 125  
 Fucaceae 282; germination of 420  
 Fuller, G. D. 352; personal 424  
 Furcraea 210  
 Fuscoporella 202  
 Fuscoporia 202

## G

- Gagnepain, F., work of 419  
 Gametophytes, of gymnosperms 215  
 Ganong, W. F., personal 216  
 Gates, R. R. 60, 68; personal 424  
 Geographic distribution, mutation and  
     358  
 Germination, fern spores 421; *Fucus*  
     420; *Spirogyra* 357  
 Gibson, R. J. Harvey, work of 286  
 Giesenhagen's "Lehrbuch der Botanik"  
     59  
 Gilg, E. M., work 418  
 Glischrothamnus 347  
 Glomerella 383; fructigena 404; **fusari-**  
     **oides** 404  
 Gnetum 418; adventitious buds 357  
 Gnomonia 371  
 Godetia, synopsis of 214  
 Goebel, Karl, personal 423  
 Gola, J., work of 275  
 Goldmania 282, 419; *sarmentosa* 198;  
     **Goldmanella sarmentosa** 198  
 Gow, James Ellis 38  
 Grasses, cleistogamy of 135  
 Gray Herbarium, bequest 72

Greene, E. L., work of 346  
 Greenman, J. M., 198; work of 282, 419  
 Green, J. Reynolds, personal 72  
 Grégoire, V., work of 3  
 Gregory, R. P., personal 72; work of 2  
 Griffon, Edouard, personal 360  
 Grisch, Andr., work of 71  
 Groom, Percy, personal 72  
 Gummosis 354  
 Gwynne-Vaughan, D. T., work of 67  
 Gymnosperms, gametophyte of 215;  
   North America 417  
 Gymnosporangium 65  
 Györfy, I., work of 60

## H

Hall, H. M., work of 285  
 Hallier, Hans 196  
 Hall, J. G., work of 419  
 Hammond, Howard S. 422  
 Harms's (Dalla Torre and) "Genera  
   Siphonogamarum" 59  
 Harper, R. A., personal 287  
 Harper, R. M., work of 204  
 Harvard University, bequest 72  
 Hasselhoff, E., work of 351  
 Hasselbring, Heinrich 176, 199, 203, 207,  
   209, 211  
 Hayata, B., work of 214  
 Hays, W. M., work of 275  
 Heald, F. D., personal 423  
 Hedysarum 66  
 Heinze, B., work of 214  
 Helianthus annuus, Mendelian inheri-  
   tance 103; variation in 338  
 Helicomorphy 138  
 Heliotropism in a lichen 71  
 Heller, A. A., work of 210, 281  
 Hemsley, W. B., work of 65  
 Hepaticae, Californian 420  
 Herbarium, Gray, 72; Kuntze 287; of  
   A. P. Morgan 424  
 Herms, William B., work of 421  
 Hesperidanthus 65  
 Heterothrix 65  
 Hexagona 202  
 Hickling, George, work of 141  
 Hieronymus G., work of 418  
 Hill, A. W., personal 72  
 Homalobus 65  
 Holm, Theo. 69, 140  
 Holodictyum 419  
 Hosseus, C. C., work of 347  
 House, H. D., work of 282, 418  
 Humphrey, H. B., work of 420  
 Humphrey, J. E., work of 1  
 Hunter's "Elements of biology" 56  
 Hutchinson, C. M., work of 212  
 Hyalocalys 418  
 Hybrids, sterility in 68

Hydnoporia 202  
 Hymenomycete, a new 211; polymor-  
   phism of 207  
 Hypericum 418

## I

Ibidium 65  
 Impatiens, embryo sac of 211  
 Inflorescence of Euphorbia 356  
 International Botanical Congress 144  
 Ishige 282  
 Iwanowski, D., work of 356

## J

Jeffrey, E. C. 67, 141  
 Jennings, H. S., work of 64  
 Jepson, W. L., work of 214  
 Jones, Marcus E., work of 419  
 Johnson, D. S., personal 216, 424  
 Jolivet, Hallie D. M., personal 288  
 Jost, Ludwig, personal 216; "Pflanzen-  
   physiologie" 201  
 Juel, H. O., personal 423; work of 141,  
   304

## K

Kawamura, S., work of 282  
 Keller, R., work of 418  
 Kellerman, W. A., death of 287; personal  
   144  
 Kennedy, P. B., work of 282, 347  
 Kentrophyta 65  
 Kern, F. D., work of 65  
 Kew Herbarium 287  
 Kidston, R., work of 67  
 Kniep, H., work of 420  
 Koehne, E., work of 347  
 Körnicke, Friederich, death of 288  
 Körnicke, Max, personal 287  
 Kranzling, Fr., work of 202  
 Krašan, Franz, death of 72  
 Krause, K., work of 347  
 Krieg, August, work of 359  
 Kuntze herbarium 287

## L

Lachnea, ascocarp of 206  
 Lackman, P., death of 216  
 Lagerheim, G., personal 72  
 Lagenostoma, pollen chamber of 409  
 Laminaria *Porra* 134  
 Land, W. J. G. 349, 359  
 Lang, W. H., work of 290  
 Larix 65  
 L'Association Internationale des Bota-  
   nistes 287  
 Lathyrus 66, 281  
 Lawson, A. A., personal 72  
 Leaf trace, double 285  
 Leaves, development of 355  
 Lectandra 346

Lemmerman's "Algae" in "Kryptogamenflora von Brandenburg" 343  
 Lepidium 66, 282  
 Leucocolejeunea 282  
 Lewis, Frederic T., work of 355  
 Lichen, heliotropism in 71  
 Life, A. C., work of 421  
 Light stimuli, summation of 278  
 Limnia 281  
 Lindsaea 65  
 Linsbauer, K., work of 142  
 Lipman, G. B., work of 66  
 Lipolysis 71; solution tension and toxicity 232  
 Liverworts, action of Mg and K 119  
 Livingston, B. E., work of 281  
 Lobeliaceae, anatomy of 140  
 Lock, R. H., personal 287; work of 139  
 Longo, B., work of 70, 211  
 Long's Peak, alpine vegetation 319  
 Loranthus 418  
 Lupinus 65, 281  
 Luzonia 347  
 Lychnis dioica, Mendelian inheritance 111  
 Lycopodium Selago, roots of 420  
 Lyman, George F., personal 424; work of 207  
 Lythraceae 347

## M

MacDougal, D. T., work of 61  
 Mackenzie, K. K., work of 347  
 Magnesium and potassium, antagonistic action 117  
 Magnus, Werner, work of 203  
 Magowan, Florence N. 45  
 Maiden, J. H., work of 202  
 Makino, T., work of 419  
 Manihot 347  
 Marine station, University of Washington 360  
 Massart, J., personal 423  
 Massee, G., work of 282  
 Maublanc, A., work of 210  
 Maxon, W. R., personal 424; work of 65, 419  
 McAllister, Fred, personal 288  
 McAlpine, D., work of 211  
 Megaceros 349  
 Megasporangium, Arisaema 39  
 Megaspore, relation to embryo sac 361  
 Meinecke's (Warming-Johannsen) "Lehrbuch der allg. Botanik" 341  
 Melanoporella 202  
 Melanoporia 202  
 Melitella 347  
 Mendelism, new cases of inheritance 103  
 Merrill, E. D., personal 144  
 Microspore, Sarracenia 31; winter condition 54

Migliorato, H., personal 423  
 Missouri Botanical Garden, report for 1907 216  
 Mitosis, Nephrodium 4; Sarracenia 31  
 Miyoshia 282  
 Moll's "Handboek der botanische Micrographie" 200  
 Moore, George F., personal 424  
 Moore, William 54  
 Moore, S. LeM., work of 347  
 Morgan, A. P., personal 144, 424  
 Movements, sleep 275  
 Murbeck, S., work of 210, 215, 304  
 Murrill, W. A., work of 65, 202  
 Muscher, R., work of 347  
 Mushrooms, regeneration of 203  
 Mutation, geographic distribution 358; Oenothera 61

## N

Nathansohn, A., work of 278  
 Nawaschin, Sergius, personal 287  
 Nelson, A., work of 282  
 Némec, B., work of 71  
 Nephrodium, apogamy in 289; chromosomes in 10; fertilization in 145; mitosis in 4; nucleus in 4; oogenesis in 145; spermatogenesis in 145; sporogenesis in 1; synapsis in 9  
 Nereocystis 125; *gigantea* 134; Luetkeana 125  
 New Zealand, ecology 139  
 New England, saltmarshes of 352  
 New York Botanical Garden 287  
 Nichols, M. Louise 31  
 Nitrogen, ammonifying in soil 66; fixation by algae 214; fixation of free 355  
 Nopalea 65, 347  
 Nordhausen, M., work of 280  
 Nordstedt, C. F. O., personal 287  
 Norton, J. B., personal 344  
 Nourishment of embryo 143  
 Nuclear division in Zygnema 285  
 Nucleolus, Sarracenia 34  
 Nucleus, Nephrodium 4; reticulum 17; Sarracenia 31

## O

Oenothera, mutations 61  
 Oistonema 347  
 Okamura, S., work of 419  
 Okamuraea 419  
 Oligolobos 419  
 Olive, E. W., work of 353  
 Oodonotheca 215  
 Oogenesis, in Nephrodium 145  
 Ophiobotrys 418  
 Ophioglossaceae 68  
 Opuntia 347  
 Oreocarya 282

Organic substances, toxic action 271  
 Orthocarpus 65  
 Osmundaceae, fossil 67  
 Osterhout, W. J. V. 117; work of 1  
 Overton, J. B. 206; work of 305  
 Oxalis, embryo of 422  
 Oxybenzenes, toxic effect 86

## P

Palaeostachya, anatomy of 141  
 Pampanini, R., work of 347  
 Parasite, alga 212; root 213; seed-plant 211  
 Passiflora 65  
 Paulseniella 282  
 Peach blight, California 208  
 Pearl, Raymond, work of 63  
 Pearson, H. H. W. work of 213  
 Peglera 65  
 Pelagophycus 125; *giganteus* 134; **Porra** 134  
 Pemberton, J. D. 194  
 Penhallow, D. P., personal 216; work of 352; "North American gymnosperms" 417  
 Penicillium, carbon assimilation 176  
 Pereskopsis 65  
 Peronosporales 65  
 Personal: Allen, C. E. 287; Allen, Ruth F. 288; Ames, O. 72; Bain, S. M. 344; Bateson, W. 72; Baur, E. 288; Blackman, F. F. 287; Blackman, V. H. 144; Bohlin, K. 72; Bonnier, G. 360; Brefeld, O. 424; Britton, N. L. 72; Burlingame, L. L. 423; Castle, W. E. 344; Chamberlain, C. J. 287, 424; Collins F. S. 287; Copeland, E. B. 144; Coulter, J. M. 424; Coupin, H. 360; Cowles, H. C. 216; Curtis, C. C. 423; Darwin, F. 287; Davenport, G. E. 287; Davenport, C. B. 344; Denniston, R. H. 288; Detto, C. 72; Duggar, B. M. 216; Elmer, A. D. E. 144; Errera, L. 423; Farmer, J. B. 216; Fitting, H. 72; Foxworthy, F. W. 144; Frye, T. C. 360; Fuller, G. D. 424; Ganong, W. F. 216; Gates, R. R. 424; Goebel, K. 423; Green, J. R. 72; Gregory, R. P. 72; Griffon, E. 360; Groom, P. 62; Harper, R. A. 287; Heald, F. D. 423; Hill, A. W. 72; Johnson, D. S. 216, 424; Jolivet, H. D. M. 288; Jost, L. 216; Juel, H. O. 423; Kellerman, W. A. 144; Körnicke, M. 287; Lagerheim, G. 72; Lawson, A. A. 72; Lock, R. H. 287; Lyman, G. R. 424; Maxon, W. R. 424; Massart, J. 423; McAllister, F. 288; Merrill, E. D. 144; Migliorato, H. 423; Moore, G. F. 424; Morgan, A. P. 144,

424; Nawaschin, S. 287; Nordstedt, C. F. O. 287; Norton, J. B. 344; Penhallow, D. P. 216; Richards, H. M. 216; Roberts, H. F. 423; Robinson, C. B. 144; Rose, J. N. 287; Rosen, F. 424; Rosenberg, O. 72; Sernander, R. 72; Seward, A. C. 216; Shattuck, C. H. 424; Shaw, W. R. 144; Shreve, F. 216; Snow, L. M. 423; Solms-Laubach 216; Spillman, W. J. 344; Stickney, Malcom E. 424; Stokey, Alma G. 423; Svedelius, N. 72; Thomas, E. N. 423; Underwood, L. M. 144; Viguiet, R. 360; Warnstorf, C. 423; Ward, W. J. 344; Weigel, T. O. 424; Whitford, H. N. 144; Wylie, R. B. 360; York, H. H. 424  
 Peucedanum 419  
 Pfeffer's "Schlafbewegungen" 273  
 Pfitzer, E., work of 202  
 Phenols, toxic effect 82  
 Philippines, Bureau of Forestry 144; forest reserve 205  
 Photosynthesis, theory of 286  
 Phototropism and perception of light 348  
 Phlox 282  
 Physiological constants 50  
 Pilger, R., work of 347  
 Piper, C. V., work of 65  
 Plankton, alpine 143  
 Plantago 282  
 Plectritis 281  
 Pleurophragma 65, 66  
 Pollen, Lagenostoma 409; Sarracenia 31  
 Pollination, and respiration 422  
 Polygonum, seed dispersal 71  
 Polymorphism of Hymenomycetes 207  
 Polyporaceae 202  
 Polystely, in roots 352  
 Polytrichum, fertilization in 358  
 Pond, R. H. 232, 359; work of 71  
 Pontederiaceae, endosperm of 338  
 Porella, an abnormal 340  
 Porsch, Otto, work of 215  
 Potamogeton 419  
 Potassium cyanid and respiration 284  
 Potassium and magnesium, antagonistic action 117  
 Prain, D., work of 419  
 Priestley, J. H., work of 286  
 Pringsheim, E., work of 278  
 Pseudobalsamia 65  
 Pseudoliparis 419  
 Pseudopeziza 383  
 Pteridosperm, a new 359  
 Pyridin, toxic effect 81

## Q

Quéva, C., work of 214

## R

- Ramaley, F., work of 282  
 Reed, H. S. 73; work of 71, 281, 283  
 Regeneration of mushrooms 203  
 Rehm, H., work of 347  
 Rendle, A. B., work of 347  
 Respiration, and pollination 422; and potassium cyanid 284  
 Reviews: Bessey's "Plant phyla" 344; Dalla Torre and Harms's "Genera Siphonogamarum" 59; Diels's "Jugendformen und Blütenreife" 137; Druce's "List of British plants" 343; Engler's "Pflanzenfamilien" 202, "Pflanzenreich" 58, 202; Errera's "Physiologie moléculaire" 200; Giesenhagen's "Lehrbuch der Botanik" 59; Hunter's "Elements of biology" 56; Jost's "Pflanzenphysiologie" 201; Lemmerman's "Algae" in "Kryptogamenflora" 343; Meinecke's (Warming-Johannsen) "Lehrbuch der allg. Botanik" 341; Moll's "Handboek der botanische Micrographie" 200; Penhallow's "North American gymnosperms" 417; Pfeffer's "Schlafbewegungen" 213; Rusby's "Bolivian plants" 59; Sargent's "Trees and shrubs" 344; Wettstein's "Handbuch der Botanik" 58; Wieler's "Einwirkung schwefliger Säure" 199; Wiesner's "Lichtgenuss" 342; Zellner's "Chemie der höhern Pilze" 272  
 Rhaphidorrhynchus 419  
 Rhopalobranchium 347  
 Rhysotheca 65  
 Richards, H. M., personal 216  
 Richthofenia 347  
 Roberts, Herbert F., personal 423  
 Robinson, B. L., work of 418  
 Robinson, C. B., personal 144; work of 418  
 Rochifortia 65  
 Roots, aroids 142; lateral 280; Lycopodium Selago 420; parasitism 213; polystelic 352; pressure 50  
 Rose, J. N., personal 287; work of 65, 347  
 Rosen, Felix, personal 424  
 Rosenberg, O., personal 72; work of 306  
 Ruhland, W., work of 354  
 Rumex 210; apogamy in 215  
 Rusby's "Bolivian plants" 59  
 Rusts, cereal 212; Olive on 353  
 Rydberg, P. A., work of 65
- S
- Sablon, Leclerc du, work of 353  
 Salix 282  
 Saltmarshes of New England 352  
 Salts, poisonous action of 422, in soil 45  
 Sargent, C. S., "Trees and shrubs" 344; work of 282  
 Sarracenia, nucleolus 34; pollen of 31  
 Saxton, W. T., work of 215  
 Saxelly, E. Mary, work of 420  
 Schlechter, R., work of 347  
 Schmidt, H., work of 356  
 Schmitz, J., work of 145  
 Schreiner, Oswald 73; work of 281  
 Schroeder, H., work of 284  
 Schumann, K., work of 347  
 Scopulophila 419  
 Secium, embryo of 70  
 Secotium 210  
 Seeds, latent life 275; dispersal 71  
 Sellards, E. H., work of 215  
 Senecio 282, 419  
 Sernander, R., personal 72  
 Servit, M., work of 60  
 Sesbania 347  
 Setchell, William Albert 125; work of 210  
 Seward, A. C., personal 216  
 Shantz, H. L., work of 143  
 Shattuck, C. H., personal 424  
 Shaw, W. R., personal 144; work of 147  
 Sherwoodia 282  
 Shreve, Forrest, personal 216  
*Shortia* 282  
 Shull, George H. 63, 103, 140, 274, 344, 350; work of 61, 64  
 Silvorchis 346  
 Senofrasichetia 202  
 Sium, Shull on 64  
 Sleep movements 273  
 Small, J. K., work of 62  
 Smith, J. J., work of 346  
 Smith, Ralph E., work of 208  
 Smith, R. Wilson 338; work of 2  
 Smoke, injury by 351; Wieler on 196  
 Smoot, I., work of 71  
 Snell, Karl, work of 359  
 Snow, Laetitia M., personal 423  
 Societies, plant, and transpiration 217  
 Soil, ammonifying nitrogen 66; chemics and plant distribution 138; fertility 281; toxic action of organic plant constituents 73; toxic effect of salts 45  
 Solms-Laubach, Graf zu, personal 216  
 Solution tension and lipolysis 71  
 Sommer, S., work of 347  
 Sophia 66  
 Sphaerostigma 65  
 Sphagnum 65, 210, 282  
 Spermatogenesis, in Nephrodium 145  
 Sperms, of Lagenostoma 409  
 Spillman, W. J., personal 344  
 Sphinctosiphon 208



Spirogyra, conjugation and germination in 357  
 Spore formation in *Derbesia* 354  
 Sporogenesis in *Nephrodium* 1  
*Stachys* 281  
 Stahl, E., work of 359  
 Standley, P. C., work of 281, 418  
*Stanleyella* 65  
 Stevens, F. L. 66, 208; work of 419  
 Stevens, W. C., work of 2  
 Stickney, Malcom E., personal 424  
 Stingl, G., work of 143  
 Stockberger, W. W. 269  
 Stokay, Alma G. 420; personal 423  
 Strasburger, Eduard, work of 1, 293, 305, 348  
 Sugar cane, disease of 209  
 Svedelius, N., personal 72  
 "Svensk Botanisk Tidskrift" 72  
 Sweden, edaphic steppes 279  
 Swiss vegetation 71  
*Symphoricarpos* 282  
 Synopsis, in *Nephrodium* 9, 18; *Sarracenia* 36  
 Sykes, M. G., work of 283

## T

*Taiwania* 213  
 Ternetz, Charlotte, work of 355  
*Tetranthus* 65  
*Thelypodopsis* 65  
*Thelypodium* 65, 66  
*Theobromin* 213  
 Thom, C., work of 147  
 Thomas, Ethel N., personal 423; work of 285  
*Tinctoporia* 202  
 Tischler, G., work of 68  
*Tmesipteris*, anatomy of 283  
 Toxic effect, in lipolysis 232; organic plant constituents 73, 271; salts of soil 45  
 Transeau, Edgar N. 217  
 Transpiration, quantitative study of 254  
 Trelease, William, work of 210  
 Treub, M., work of 209  
*Trichostephanus Marquesis* 418  
*Trifolium* 281  
 Triphasis, cleistogamy of 135  
 Tröndle, A., work of 357  
*Tubocapsicum* 419  
*Tyromyces* 202

## U

Ule, E., work of 346  
 Underwood, L. M., personal 144, 268; work of 65  
*Urbanodoxa* 347  
*Urbanosciadium* 347  
 Urea, toxic effect 81  
 Uredineae 347  
*Utricularia* 347

## V

*Vaccinium* 419

Vail, A. M., work of 61  
*Valeriana* 65  
 Valetton, Th., work of 282  
 Van Beusekom, Jan, work of 357  
 Van Leeuwen-Reynvaans, work of 358  
 Variegation 350  
 Varieties, ever-sporting 350  
*Vaucheria* 65  
 Velenovský, J., work of 60  
*Verbascum Blattaria*, Mendelian inheritance 114  
 Viguier, René, personal 360; work of 69  
*Viscum* 418

## W

Warming's "Danish strand vegetation" 55; Meinecke's (Warming-Johannsen) "Lehrbuch der Botanik" 341  
 Warnstorff, C., personal 422; work of 65, 210, 282  
 Ward, W. J., personal 344  
 Water, ascent of 345  
 Weevers, Th., work of 213  
 Weigel, Theodor Oswald, personal 424  
 West, G. S., work of 208  
 Wettstein's "Handbuch der Botanik" 59  
 Wheat, action of Mg and K 122  
 White, Jean, work of 422  
 White, J. H., work of 352  
 Whitford, H. N., personal 144; work of 205  
 Wieler's "Einwirkung schwefliger Säure" 199  
 Wiesner's "Lichtgenuss" 342  
 Wight, W. F., work of 65  
 Wilcox, E. Mead 420  
 Willis, J. C., work of 358  
 Wilson, G. W., work of 65  
 Winkler, Hans, work of 306  
 Witte, H., work of 280  
 Wolff, H., work of 347  
*Woodsia* 418  
 Wood tissue 359  
 Wooton, E. O., work of 281  
 Woronin, Hélène, work of 276  
 Wylie, R. B., personal 360

## X

*Xystrolobos* 419

## Y

Yamanouchi, Shigéo 145, 277, 285, 289, 354  
 Ydrac, F. L., work of 140  
 Yendo, K., work of 282  
 York, Harlan H., personal 424  
*Yucca* 210

## Z

Zahlbruckner, A., work of 202  
*Zamia* 65  
 Zellner's "Chemie der höhern Pilze" 272  
*Zygnema*, nuclear division in 285